

D4 16. (Amended) ^{TWICE} A kit for isolating genomic DNA from a sample, the kit comprising superparamagnetic polystyrene beads and one or more detergents.

15 24. (Amended) A method as claimed in claim 1, the method further comprising the step of detecting, hybridizing, amplifying or quantifying the bound genomic DNA after the separating step.

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Add new claims 27-34 as follows.

-- 27. A kit for isolating genomic DNA from a sample, the kit comprising (a) a solid support as defined in claim 1; (b) one or more detergents; and (c) instructions for isolating genomic DNA according to the method of claim 1.

28. A method of isolating RNA and genomic DNA from a sample, said method comprising (a) contacting said sample with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said sample is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; (b) separating said support with bound genomic DNA from the sample; and (c) isolating RNA from said sample.

16 29. A kit for isolating RNA and genomic DNA from a sample, the kit comprising (a) superparamagnetic polystyrene beads; (b) oligo dT beads; and (c) one or more detergents.

30. A kit for isolating RNA and genomic DNA from a sample, the kit comprising (a) a solid support comprising an organic polymer; (b) one or more detergents; and (c) instructions for isolating RNA and genomic DNA according to the method of claim 28.

31. A method of isolating genomic DNA from cells in a sample, said method comprising (a) obtaining cells from said sample by immunomagnetic separation; (b) producing a lysate by contacting said cells with a detergent and a solid support in the absence of any chaotropic agent,

the solid support comprising an organic polymer, whereby soluble genomic DNA in said lysate is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; and (c) separating said support with bound genomic DNA from said lysate.

32. A method as claimed in claim 31, wherein said cells are in a cell:bead complex.

33. A method of isolating RNA and genomic DNA from cells in a sample, said method comprising (a) obtaining cells from said sample by immunomagnetic separation; (b) producing a lysate by contacting said cells with a detergent and a solid support in the absence of any chaotropic agent, the solid support comprising an organic polymer, whereby soluble genomic DNA in said lysate is bound to the support in a sequence-independent manner in the presence of the detergent and absence of any chaotropic agent; (c) separating said support with bound genomic DNA from said lysate; and (d) isolating RNA from said lysate.

34. A method as claimed in claim 33, wherein said cells are in a cell:bead complex. --
